

Title (en)

ELECTRONIC DEVICE WITH DATA STORAGE DEVICE

Title (de)

ELEKTRONISCHE EINRICHTUNG MIT DATENSPEICHEREINRICHTUNG

Title (fr)

DISPOSITIF ELECTRONIQUE DOTE D'UN DISPOSITIF DE STOCKAGE DE DONNEES

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2004021355A2] An electronic device (100) has a data storage device (120) for storing N data elements, the data storage device (120) comprising a first collection (122) of data storage elements (130). The first collection (122) of data storage elements (130) is accessible through an address decoder (140). In a shift register mode of the data storage device (120), the address decoder (140) is responsive to an address generator (160) comprising a modulo-N counter. Rather than having to shift data elements from one data storage element (130) to another, the address generator (160) generates a pointer to the data storage element (130) that contains the data element that is to be shifted out of the shift register. This has the advantage that the output of a predecessor data storage element (130) in a shift register need not be interconnected to the input of its successor. In addition, the amount of data traffic required during a shift is drastically reduced. The invention is particularly relevant to reconfigurable logic devices that use look-up tables for implementing shift registers.

IPC 1-7

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IPC 8 full level

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CPC (source: EP KR US)

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